

Title (en)
INFRARED SENSOR ABLE TO CAPTURE INSTANTANEOUSLY

Title (de)
INFRAROTSENSOR ZUR SOFORTIGEN ERFASSUNG

Title (fr)
CAPTEUR INFRAROUGE A CAPTURE INSTANTANEE

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Abstract (en)
[origin: WO2021043456A1] The invention relates to an infrared sensor comprising a set of pixels (11) that are juxtaposed in rows and in columns, each pixel incorporating an imaging microbolometer (Rac) and an integrator assembly comprising: a transistor (N4) arranged to act as an amplifier; and a capacitor (Cint) arranged to counteract said transistor, between the output node (No) and an integration node (Ne); said integration node being connected to a baselining transistor (P1) that operates as a current mirror with a baselining-control transistor located outside said pixel, a baselining current (Icm) flowing through said baselining-control transistor being controlled according to the temperature of at least one thermalized microbolometer, said current-mirror arrangement allowing said baselining current flowing through said baselining-control transistor to be transmitted to said integration node so that said capacitor integrates the difference between a current (Iac) flowing through said imaging microbolometer and said baselining current.

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